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THE VETERINARY BULLETIN

1966

VOLUME 36

COMMONWEALTH MYCOLOGICAL INSTITUTE
28 FEB 1967

COMMONWEALTH BUREAU OF ANIMAL HEALTH
WEYBRIDGE, SURREY
ENGLAND

Commonwealth Agricultural Bureaux

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AUTHORS' ADDRESSES

As a result of many requests from subscribers for the inclusion of authors' addresses, these will now be added to the citation of each abstract, whenever possible.

The additional printing cost is being offset by omitting the monthly author index. We would like to have readers' reactions to these changes.

ANIMAL PRODUCTION

JOURNAL OF THE BRITISH SOCIETY OF ANIMAL PRODUCTION

This Journal was first published in 1959 and superseded the *Proceedings of the British Society of Animal Production* which had appeared since 1944.

The editorial policy is to cover the whole field of animal production and to publish papers on original research in the field of animal production and in any related scientific field. Papers deal with genetics, husbandry, nutrition, physiology and the inter-relationships of animal and environment.

Contributors are not restricted to work on farm livestock, and papers on relevant experiments with small animals and theoretical studies are included.

Reviews are published and abstracts of papers read at meetings of the British Society of Animal Production provide a record of work in progress in Great Britain.

Published three times a year in
FEBRUARY · JUNE · OCTOBER
(*The* 1966 *volume is number* 8)

Annual Subscription	65s.	(U.S.A. $11.00)
Single part	25s.	(U.S.A. $4.00)

Orders and subscriptions can be placed with any major bookseller or sent to:

OLIVER AND BOYD LTD.

Tweeddale Court, 14 High Street, Edinburgh, 1.

RHODESIA, MALAWI AND ZAMBIA

JOURNAL OF AGRICULTURAL RESEARCH

(Formerly the Rhodesian Journal of Agricultural Research)

The Journal of the Agricultural Research Council of Central Africa

Vol. 4, No. 1 January 1966

CONTENTS

Early height growth of *P. taeda*.
Branching habit of *Arachis monticola*.
Fungicidal control of *Cercospora*.
Test plant age and transmission of rosette.
Behaviour of *Myzus persicae* on tobacco.
Nematode infestation of sheep.
Estimation of multiple missing values.

Research Notes

Relation of soil temperatures to air temperatures.
Influence of potassium on boron uptake by tobacco.

Published January and July of each year.
Annual Subscription 30s. Individual numbers 15s.
Back numbers available.

Specimen copies are available free of charge to libraries from—
The Assistant Editor,
Agricultural Research Council of Central Africa,
Pax House, Union Avenue, Salisbury, Rhodesia.

UNIVERSITY OF EDINBURGH ROYAL (DICK) SCHOOL OF VETERINARY STUDIES

DIPLOMA COURSE IN TROPICAL VETERINARY MEDICINE

The course for the post-graduate Diploma in Tropical Veterinary Medicine (D.T.V.M.) commences at the beginning of October and lasts for an academic year of 9 months.

It is open to veterinarians holding qualifications registrable with the Royal College of Veterinary Surgeons or such other veterinary qualifications as may be recognised for the purpose by the University Court.

The course is designed to cater for the needs of veterinarians in devoloping countries. On completion of the course diplomates may be eligible for admission as M.Sc. or Ph.D. students.

Classes are held at the Veterinary School, Veterinary Field Station and in appropriate Departments of the University. Subjects covered by the course include Animal Husbandry in the Tropics, Animal Industries, Bacteriology, Entomology, Epizootiology and Disease Control, Immunology, Nutrition, Parasitology, Pathology and Tropical Veterinary Hygiene. Written, oral and practical examinations qualifying for the diploma are held in March and in June. Re-sit examinations are held in September.

Applications for admission should be lodged with the Dean, Royal (Dick) School of Veterinary Studies, Summerhall, Edinburgh 9, on or before 31st March of the year in which the applicant desires admission.

November, 1965.

18th WORLD VETERINARY CONGRESS

Paris, July 17-22, 1967

Each session will consist of discussion of a topic presented by one or more invited speakers, each allowed ten minutes to introduce his paper.

A person attending the congress may submit a short communication (abstract) by writing it on a special form obtainable from the national organizing committees. Authors of short communications related to a topic of the congress will be given priority to speak in the discussion of the topic. The other short communications will be "read by title" at a special session.

Topics, papers and short communications will be grouped into the following sections:— anatomy; physiology, biochemistry and pharmacology; parasitology; hygiene of animal products and veterinary public health; zootechny; pathological anatomy; microbiology and immunology; surgery; clinical studies; veterinary state medicine; education; professional interests.

All papers and short communications must be presented in English, French, German, or Spanish; Russian might also be accepted.

A scientific and professional exhibition will be held during the Congress.

The provisional programme and enrolment forms will be available early in 1966 from the registered offices of the national organizations, or if there is none in the country, at the Centre d'Organisation du 18e Congres Mondial Veterinaire, 28 rue des Petites-Hôtels, Paris 10.

PLAN OF ARRANGEMENT OF ABSTRACTS IN THE VETERINARY BULLETIN

Diseases caused by bacteria

(classified according to Bergey's Manual of Determinative Bacteriology)

Family	*Genera*
Pseudomonadaceae	Pseudomonas
Spirillaceae	Vibrio
	Selenomonas
Enterobacteriaceae	Escherichia
	Aerobacter
	Klebsiella
	Serratia
	Proteus
	Salmonella
Brucellaceae	Pasteurella
	Bordetella
	Brucella
	Haemophilus
	Actinobacillus
	Moraxella
Bacteroidaceae	Bacteroides
	Sphaerophorus
Neisseriaceae	Neisseria
Micrococcaceae	Micrococcus
	Staphylococcus
Lactobacillaceae	Diplococcus
	Streptococcus
Corynebacteriaceae	Corynebacterium
	Listeria
	Erysipelothrix
Bacillaceae	Bacillus
	Clostridium
Mycobacteriaceae	Mycobacterium
Treponemataceae	Borrelia
	Leptospira
Mycoplasmataceae	Mycoplasma

Diseases caused by fungi and fungal toxins

Fungal infections
- Actinomyces
- Aspergillus
- Candida
- Coccidioides
- Dermatophilus
- Histoplasma
- Nocardia
- Ringworm
- Other fungi

Toxic fungi
- Claviceps
- Stachybotrys
- Fusarium
- Pithomyces
- Aspergillus
- Other fungi

Diseases caused by protozoan parasites

- Trypanosoma
- Trichomonas
- Histomonas
- Hexamita
- Eimeria and Isospora
- Babesia
- Theileria
- Anaplasma
- Toxoplasma
- Plasmodium
- Amoeba
- Leishmania
- Sarcocystis
- Giardia
- Besnoitia
- Leucocytozoon
- Eperythrozoon
- Bartonella
- Grahamella

Diseases caused by viruses and rickettsiae

(a) Viruses not limited to a single species
- foot and mouth disease
- Aujeszky's disease
- rabies
- pox diseases
- influenza
- encephalitis

(b) Viral diseases of equines
- infectious anaemia
- African horse sickness
- equine encephalomyelitis
- respiratory infections

(c) Viral diseases of cattle
- rinderpest
- malignant catarrh
- rhinotracheitis
- mucosal disease complex
- ephemeral fever
- lumpy skin disease

(d) Viral diseases of sheep and goats
- bluetongue
- contagious ecthyma
- louping ill
- viral abortion

(e) Viral diseases of swine
- swine fever
- African swine fever
- porcine encephalomyelitis
- vesicular exanthema
- enteroviruses

(f) Viral diseases of carnivores
- dog distemper
- infectious hepatitis
- cat viruses

(g) Viral diseases of other mammals

(h) Viral diseases of birds
- fowl plague and Newcastle disease
- laryngotracheitis and bronchitis
- psittacosis
- avian encephalomyelitis
- duck plague and duck hepatitis

(i) Rickettsial infections
- Q fever
- heartwater
- keratoconjunctivitis

Immunity

General immunology and serology; allergy and anaphylaxis

Arthropod Parasites

Lice, fleas, diptera, pentastomes, ticks, mites

Helminth Parasites

Trematodes cestodes, nematodes
arranged by host animal in the order: horse, cattle, sheep & goat, pig, carnivores, other mammals, birds

Neoplasms and Leucaemias (including Fowl Paralysis)

arranged by host animal

Nutritional and Metabolic Disorders

Disorders attributable to individual nutrients, minerals, vitamins
Metabolic disorders: ketosis, milk fever, tympanites etc.

Diseases, General

Geographical pathology: diseases occurring in a given territory
Animal pathology: unclassified diseases of particular animals
Special regional pathology: unclassified diseases of particular body systems

Poisons and Poisoning

Inorganic and organic poisons; poisonous plants

Pharmacology and Therapeutics

Actions and uses of drugs; anaesthesia

Physiology, Biochemistry and Anatomy

Metabolism and heat regulation; lactation; regional physiology; haematology; biochemistry; anatomy

Radiations and Radioactive Isotopes

Radiation syndrome; radioactive substances in animals and foodstuffs; applications of isotopes

Food Inspection

Milk and meat hygiene; meat inspection

Livestock Hygiene

Disinfectants; farm buildings; water supply

Reproduction and Reproductive Disorders

Physiology of reproduction; pregnancy diagnosis; infertility; diseases of the genital system; hereditary diseases

Zootechny

Animal husbandry; identification and transport of livestock

Technique, Apparatus and Surgery

Miscellaneous

Reports

of government departments, institutes and schools

Book Reviews

VETERINARY NON-PROPRIETARY NAMES

The British Veterinary Codex Revision Committee of the Pharmaceutical Society of Great Britain has adopted the following non-proprietary names for the drugs listed below. These names were adopted after publication of the British Veterinary Codex 1965.

Non-proprietary name	Other Names
bunamidine	*NN*-dibutyl-4-hexyloxy-1-naphthamidine; Scolaban is the hydrochloride
coumaphos	3-chloro-4-methyl-2-oxo-2*H*-1-benzopyran-7-yl diethyl phosphorothionate; Asuntol; Bayer 21/199
crufomate	2-chloro-4-t-butylphenyl methyl *N*-methylphosphoramidate; Ruelene
dimpylate	diazinon
methindizate	2-(1-methyloctahydroindol-3-yl)ethyl benzilate. The hydrochloride is an ingredient of Isaverin
naphthalophos	*N*-(diethoxyphosphinyloxy)naphthalimide; Rametin; Maretin
oxyclozanide	3, 5, 6, 3′, 5′-pentachloro-2, 2′-dihydroxybenzanilide, I.C.I. 46,638 (a fasciolicide)
pyrimithate	2-dimethylamino-6-methylpyramid-4-yl diethyl phosphorothionate; I.C.I. 29,661 (an insecticide)
tetramisole	2, 3, 5, 6-tetrahydro-6-phenylimidazo-[2, 1-b]thiazole; I.C.I. 50,627 (an anthelmintic)
tylosin	Tylan (an antibiotic)

LANGUAGE ABBREVIATION

Language of origin	Language of summary		Language of origin	Language of summary	
Af	af.	= Afrikaans	H.	h.	= Hungarian
A.	a.	= Arabic	Ind.	ind.	= Indonesian
Arm.	arm.	= Armenian	I.	i.	= Italian
B.	b.	= Bulgarian	J.	j.	= Japanese
C.	c.	= Chinese	La.	la.	= Latvian
Cr.	cr.	= Croat	Li.	li.	= Lithuanian
Cz.	cz.	= Czech	N.	n.	= Norwegian
Da.	da.	= Danish	Pol.	pol.	= Polish
D.	d.	= Dutch	Por.	por.	= Portuguese
E.	e.	= English	Rou.	rou.	= Roumanian
Es.	es.	= Estonian	R.	r.	= Russian
Fi.	fi.	= Finnish	Ser.	ser.	= Serbian
Fl.	fl.	= Flemish	Slk.	slk.	= Slovak
F.	f.	= French	Sle.	sle.	= Slovene
Ge.	ge.	= Georgian	Sp.	sp.	= Spanish
G.	g.	= German	Sw.	sw.	= Swedish
Gr.	gr.	= Greek	T.	t.	= Turkish
He.	he.	= Hebrew	U.	u.	= Ukrainian

LIST OF SERIAL PUBLICATIONS REGULARLY SCANNED BY THE COMMONWEALTH BUREAU OF ANIMAL HEALTH

January 1966

Incorporating abbreviations in the fourth edition of World List of Scientific Periodicals (1963/65)

Journals marked with an asterisk are not available at Weybridge

Title	Abbreviation
Aarsberetning. Institut for Sterilitetsforskning, Denmark	Aarsberetn. Inst. Sterilitetsforsk., Copenhagen
Abstracts of Bulgarian Scientific Literature—Agriculture, Forestry and Veterinary Medicine	Abstr. Bulg. scient. Lit.
*Acta Allergologica, Denmark	Acta allerg.
*Acta Anatomica, Switzerland	Acta anat.
*Acta Endocrinologica. Denmark	Acta endocr. Copenh.
*Acta Haematologica. Switzerland	Acta haemat.
Acta Medica Veterinaria. Italy	Acta med. vet., Napoli
*Acta Microbiologica Academiae Scientiarum Hungaricae	Acta microbiol. hung.
Acta Microbiologica Polonica	Acta microbiol. pol.
Acta Microbiologica Sinica. China	Acta microbiol. sin.
*Acta Morphologica Neerlando-Scandinavica. Netherlands	Acta morph. neerl.-scand.
Acta Neuropathologica. Germany	Acta neuropath.
*Acta Pathologica Japonica	Acta path. jap.
Acta Pathologica et Microbiologica Scandinavica. Denmark	Acta path. microbiol. scand.
*Acta Pharmacologica et Toxicologica. Denmark	Acta pharmac. tox.
*Acta Physiologica Academiae Scientiarum Hungaricae	Acta phys. hung.
Acta Protozoologica. Poland	Acta prot., Warszawa
*Acta Tropica. Switzerland	Acta trop.
*Acta Tuberculosea et Pneumologica Scandinavica. Denmark	Acta tuberc. scand.
Acta Veterinaria. Yugoslavia	Acta vet., Beogr.
Acta Veterinaria Academiae Scientiarum Hungaricae	Acta vet. hung.
Acta Veterinaria Japonica. Japan	Acta vet. jap.
Acta Veterinaria Scandinavica. Denmark	Acta vet. scand.
Acta Veterinaria et Zootechnica Sinica. China	Acta vet. zootech. sin.
Acta Virologica. Czechoslovakia	Acta virol., Prague
Advances in Parasitology	Adv. Parasit.
Advances in Veterinary Science. U.S.A.	Adv. vet. Sci.
*Advancement of Science. U.K.	Advmt Sci., Lond.
Agra University Journal of Research (Science). India	Agra Univ. J. Res.
Agrártudományi Egyetem Mezögazdaságtudományi Karânak Közleményei, Hungary	Agrártud. Egyet. mezögtud. Kar. Közl., Gödöllö
*Agricultural Chemicals. U.S.A.	Agric. Chem.
Agricultural Gazette of New South Wales. Australia	Agric. Gaz. N.S.W.
Agricultural Institute Review. Canada	Agric. Inst. Rev.
Agricultural Meteorology. Netherlands	Agric. Met.
*Agricultural Progress. U.K.	Agric. Prog.
Agricultural Research, India	Agric. Res., New Delhi
*Agricultural Research. U.S. Department of Agriculture	Agric. Res., Wash.
Agricultural Science Review. U.S.A.	Agric. Sci. Rev., Wash.
Agricultural & Veterinary Chemicals. U.K.	Agric. vet. Chem.
Agriculture, Ministry of Agriculture, London	Agriculture, Lond.
Agriculture. Pakistan	Agriculture Pakist.
American Fur Breeder	Am. Fur Breeder
*American Journal of Anatomy	Am. J. Anat.
American Journal of Clinical Pathology	Am. J. clin. Path.
American Journal of Epidemiology	Am. J. Epidem.
American Journal of Medical Technology	Am. J. med. Technol.
American Journal of Pathology	Am. J. Path.
American Journal of Physiology	Am. J. Physiol.
American Journal of Public Health	Am. J. publ. Hlth.
American Journal of Tropical Medicine and Hygiene	Am. J. trop. Med. Hyg.
American Journal of Veterinary Research	Am. J. vet. Res.
American Review of Respiratory Diseases	Am. Rev. resp. Dis.
Anais da Escola Fluminense de Medicina Veterinaria. Brazil	Anais Esc. flum. Med. vet., Niteroi
Anais da Escola Superior de Medicina Veterinaria. Portugal	Anais Esc. Med. vet., Lisboa
*Anais de Microbiologia. Brazil	Anais Microbiol.

Title	Abbreviation
Anais dos Serviços de Veterinária e Indústria Animal, Moçambique	Anais Servs Vet. Ind. anim. Moçamb.
Anales Científicos. Peru	An. cient., Lima
Anales de la Facultad de Veterinaria de Leon. Spain	An. Fac. Vet. Leon
Anales de la Facultad de Veterinaria. Uruguay	An. Fac. Vet., Urug.
Anales del Instituto de Investigaciones Veterinarias. Spain	An. Inst. Invest. vet. Madrid
Anales del Instituto Nacional de Microbiologia. Argentina	An. Inst. Nac. Microbiol., B. Aires
Analyst. U.K.	Analyst, Lond.
Analytical Abstracts. U.K.	Analyt. Abstr.
*Anatomischer Anzeiger. Germany	Anat. Anz.
Anatomical Record. U.S.A.	Anat. Rec.
Angewandte Parasitologie. Germany	Angew. Parasit.
Animal Behaviour. U.K.	Anim. Behav.
Animal Breeding Abstracts. U.K.	Anim. Breed. Abstr.
Animal Health. India	Anim. Hlth, Calcutta
Animal Production. U.K.	Anim. Prod.
*Annals of Applied Biology. U.K.	Ann. appl. Biol.
Annals of the New York Academy of Sciences. U.S.A.	Ann. N.Y. Acad. Sci.
Annals of Tropical Medicine and Parasitology. U.K.	Ann. trop. Med. Parasit.
Annali della Facoltà di Medicina Veterinaria di Torino. Italy	Annali Fac. Med. vet. Torino
Annali della Facoltà di Medicina Veterinaria, Università di Pisa. Italy	Annali Fac. Med. vet. Pisa
Annales de Biologie Animale, Biochimie, Biophysique. France.	Annls Biol. anim. Biochim. Biophys.
Annales de l'Institut Agricole de l'Algérie. Algeria	Annls Inst. agric. Algér.
Annales de l'Institut Pasteur de Lille, France	Annls Inst. Pasteur Lille
Annales de l'Institut Pasteur. France	Annls. Inst. Pasteur, Paris
Annales de Médecine Vétérinaire. Belgium	Annls. Méd. vét.
Annales de Parasitologie Humaine et Comparée. France	Annls Parasit. hum. comp.
Annales de la Société Belge de Médecine Tropicale. Belgium	Annls Soc. belge Méd. trop.
Annales Universitatis Mariae Curie-Skłodowska. Section DD. Poland	Annls Univ. Mariae Curie-Skłodowska Sect. DD
Annales de Zootechnie. France	Annls Zootech.
Antonie van Leeuwenhoek Journal of Microbiology and Serology. Netherlands	Antonie v. Leeuwenhoek
Applied Microbiology. U.S.A.	Appl. Microbiol.
Archiv für Experimentelle Veterinärmedizin. Germany	Arch. exp. VetMed.
Archiv für Geflügelkunde. Germany	Arch. Geflügelk.
Archiv für die Gesamte Virusforschung. Austria	Arch. ges. Virusforsch.
*Archiv für Lebensmittelhygiene. Germany	Arch. Lebensmittelhyg.
*Archiv für Toxikologie. Germany	Arch. Tox.
Archiva Veterinaria. Roumania	Archiva vet.
Archives of Biochemistry and Biophysics. U.S.A.	Archs Biochem. Biophys.
Archives de l'Institut Pasteur d'Algérie. Algeria	Archs Inst. Pasteur Algér.
Archives de l'Institut Pasteur Hellénique. Greece	Archs Inst. Pasteur hellén.
Archives de l'Institut Pasteur de Madagascar	Archs Inst. Pasteur Madagascar
Archives de l'Institut Pasteur de Tunis. Tunisia	Archs Inst. Pasteur Tunis
Archives de l'Institut Razi. Iran	Archs Inst. Razi
*Archives Internationales de Pharmacodynamie et de Thérapie. Belgium	Archs int. Pharmacodyn. Thér.
*Archives of Opthalmology. U.S.A.	Archs Ophthal., Chicago
Archives of Pathology. U.S.A.	Archs Path.
Archives Roumaines de Pathologie Expérimentale et de Microbiologie	Archs roum. Path. exp. Microbiol.
Archivio Veterinario Italiano	Archo vet. ital.
Archivos de Zootecnia. Spain	Archos Zootecnia
Arhiv za Poljoprivredne Nauke. Yugoslavia	Arh. poljopr. Nauke
*Arkhiv. Patologii, U.S.S.R.	Arkh. Patol.
Arquivos da Escola de Veterinária, Universidade de Minas Gerais. Brazil	Arqs Esc. Vet. Minas Gerais
Arquivos do Instituto de Biologia Animal. Brazil	Arqs Inst. Biol. Anim. Rio de J.
Arquivos do Instituto Biologico. Brazil	Arqs Inst. biol. S. Paulo
Arquivos do Instituto de Pesquisas Veterinarias 'Desiderio Finamor'. Brazil	Arqs Inst. Pesq. vet. Finamor
Arsskrift. Kongelige Veterinaer- og Landbohøjskole, Denmark	Arsskr. K. Vet.- Landbohøjsk.
*Arzneimittelforschung. Germany	Arzneimittelforsch.
Atti della Società Italiana delle Scienze Veterinarie. Italy	Atti Soc. ital. Sci. vet.
Auburn Veterinarian. U.S.A.	Auburn Vet.
Australian Journal of Agricultural Research	Aust. J. agric. Res.
Australian Journal of Biological Sciences	Aust. J. biol. Sci.
*Australian Journal of Dairy Technology	Aust. J. Dairy Technol.
Australian Journal of Experimental Agriculture and Animal Husbandry	Aust. J. exp. Agric. Anim. Husb.
Australian Journal of Experimental Biology and Medical Science	Aust. J. exp. Biol. med. Sci.

Title	Abbreviation
Australian Journal of Zoology	Aust. J. Zool.
Australian Veterinary Journal	Aust. vet. J.
Avian Diseases. U.S.A.	Avian Diseases
Bacteriological Proceedings. U.S.A.	Bact. Proc.
Bacteriological Reviews. U.S.A.	Bact. Rev.
Beiträge zur tropischen und subtropischen Landwirtschaft und Tropenveterinärmedizin. Germany	Beitr. trop. subtrop. Landw. TropenvetMed.
Bengal Veterinarian. India	Bengal Vet.
Beretning fra Forsøgslaboratoriet. Denmark	Beretn. Forsøgslab.
Berliner und Münchener Tierärztliche Wochenschrift. Germany	Berl. Münch. tierärztl. Wschr.
Biochemical and Biophysical Research Communications. U.S.A.	Biochem. biophys. Res. Commun.
Biochemistry. U.S.A.	Biochem., Easton
Biochemical Journal. U.K.	Biochem. J.
Biochimica et Biophysica Acta. Netherlands	Biochim. biophys. Acta
Biokemia. U.S.A.	Biokemia
Biological Abstracts. U.S.A.	Biol. Abstr.
*Biological Reviews of the Cambridge Philosophical Society	Biol. Rev.
Biológico. Brazil	Biológico
Biotechnology and Bioengineering. U.S.A.	Biotechnol. Bioengng
Die Blauen Hefte für den Tierarzt. Germany	Blauen Hefte, Fárbwerke Hoechst
*Blood. The Journal of Hematology. U.S.A.	Blood
*Blut. Zeitschrift für Blutforschung. Germany	Blut
Boletim de Industria Animal. Brazil	Bolm Ind. anim.
Boletim de Inseminaçao Artificial. Brazil	Bolm Insem. artif.
Boletim Pecuário. Portugal	Bolm pecuar.
Boletim Técnico Universidade Rural. Brazil	Bolm téc. Univ. Rural, Brazil
Boletin Informativo y Suplemento Cientifico del Consejo General de Colegios Veterinarios de España. Spain	Boln inf. Supl. cient. Consejo gen. Col. vet. Esp.
Boletin del Instituto de Investigaciones Veterinarias. Venezuela	Boln Inst. Invest. vet., Maracay
*Boletin de la Oficina Sanitaria Panamericana. U.S.A.	Boln Of. sanit, pan-am.
Boletin trimestral del Centro de Investigaciones Veterinarias "Miguel C. Rubino". Uruguay	Boln trim. Cent. Invest. vet., Pando
Boletin de Zootecnia. Spain	Boln Zootec., Cordoba
*Bollettino dell'Istituto Sieroterapico Milanese. Italy	Boll. Ist. sieroter. milan.
*Bollettino della Società Italiana di Biologia Sperimentale. Italy	Boll. Soc. ital. Biol. sper.
Bombay Veterinary College Magazine. India	Bombay vet. Coll. Mag.
*British Journal of Cancer	Br. J. Cancer
British Journal of Experimental Pathology	Br. J. exp. Path.
*British Journal of Haematology	Br. J. Haemat.
British Journal of Nutrition	Br. J. Nutr.
British Journal of Pharmacology and Chemotherapy	Br. J. Pharmac. Chemother.
British Medical Bulletin	Br. med. Bull.
British Medical Journal	Br. med. J.
British Poultry Science	Br. Poult. Sci.
British Veterinary Journal	Br. vet. J.
*Bulletin de l'Académie Nationale de Médecine. France	Bull. Acad. nat. Méd.
Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Biologiques. Poland	Bull. Acad. pol. Sci. Sér. Sci. biol.
Bulletin de l'Académie Vétérinaire de France. France	Bull. Acad. vét. Fr.
Bulletin of the Azabu Veterinary College, Japan	Bull. Azabu vet. Coll., Japan
Bulletin of Entomological Research. U.K.	Bull. ent. Res.
Bulletin of Epizootic Diseases of Africa. Kenya	Bull. epizoot. Dis. Afr.
Bulletin of the Faculty of Agriculture, University of Miyazaki. Japan	Bull. Fac. Agric. Univ. Miyazaki
Bulletin of the Hiroshima Agricultural College	Bull. Hiroshima agric. Coll.
Bulletin of Hygiene. U.K.	Bull. Hyg., Lond.
Bulletin de l'Institut Pasteur. France	Bull. Inst. Pasteur
Bulletin. Office International des Epizooties	Bull. Off. int. Epizoot.
Bulletin de la Société de Pathologie Exotique et de ses Filiales. France	Bull. Soc. Path. exot.
Bulletin de la Société Royale de Zoologie d'Anvers	Bull. Soc. R. Zool. Anvers
Bulletin de la Sociéte des Sciences Vétérinaires de Lyon. France	Bull. Soc. Sci. vét. Lyon
Bulletin de la Société Vétérinaire Hellénique. Greece	Bull. Soc. vét. hell.
*Bulletin Mensuel de la Société Vétérinaire Pratique de France	Bull. Soc. vét. prat. Fr.
Bulletin of the University of Osaka Prefecture. Series B. Japan	Bull. Univ. Osaka Prefect. Ser. B.
Bulletin of the Veterinary Institute in Pulawy. Poland	Bull. vet. Inst. Pulawy
Bulletin of the Wildlife Disease Association. U.S.A.	Bull. Wildl. Dis. Ass.
Bulletin of the World Health Organization	Bull. Wld Hlth Org.
Byulleten Experimental'noi Biologii i Meditsiny. U.S.S.R.	Byull. eksp. Biol. Med.
*Comptes Rendus de l'Académie Bulgare des Sciences	C. r. Acad. bulg. Sci.
*Comptes Rendus Hebdomadaires des Séances de l'Académie d'Agriculture de France	C. r. hebd. Séanc. Acad. Agric. Fr.

Title	Abbreviation
*Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. France	C. r. hebd. Séanc. Acad. Sci., Paris
Comptes Rendus des Séances de la Société de Biologie et des ses Filiales. France	C. r. Séanc. Soc. Biol., Paris
C.S.I.R.O. Wildlife Research. Australia	C.S.I.R.O. Wildlife Res.
Cahiers de Médecine Vétérinaire. France	Cah. Méd. vét.
California Veterinarian	Calif. Vet.
Canadian Journal of Animal Science	Can. J. Anim. Sci.
Canadian Journal of Biochemistry	Can. J. Biochem.
Canadian Journal of Comparative Medicine and Veterinary Science	Can. J. comp. Med.
Canadian Journal of Microbiology	Can. J. Microbiol.
Canadian Journal of Physiology and Pharmacology	Can. J. Physiol. Pharmac.
*Canadian Journal of Public Health	Can. J. publ. Hlth
Canadian Journal of Zoology	Can. J. Zool.
Canadian Veterinary Journal	Can. vet. J.
*Cancer. U.S.A.	Cancer, Philad.
Cancer Research. U.S.A.	Cancer Res.
Ceylon Veterinary Journal	Ceylon vet. J.
Chemistry & Industry. U.K.	Chemy Ind.
*Chinese Medical Journal	Chin. med. J.
Ciencias Veterinarias. Mexico	Ciencs vet.
*Circulation Research. U.S.A.	Circulation Res.
Clinica Chimica Acta. Netherlands	Clinica chim. Acta
Clinica Veterinaria. Italy	Clinica vet., Milano
Communicationes Veterinariae. Indonesia	Communicationes vet., Bogor
*Comunicarile Academici Republicii Populare Romine. Roumania	Comunle Acad. Rep. pop. rom.
Cornell Veterinarian. U.S.A.	Cornell Vet.
*Československá Epidemiologie, Mikrobiologie, Imunologie	Čslká Epidem. Mikrobiol. Imunol.
*Current Science. India	Curr. Sci.
Dairy Science Abstracts. U.K.	Dairy Sci. Abstr.
*Dissertation Abstracts. U.S.A.	Diss. Abstr.
Doklady Akademii Nauk Armyanskoi SSR	Dokl. Akad. Nauk Armyan. SSR
*Doklady Akademii Nauk Azerbaidzhanskoi SSR	Dokl. Akad. Nauk Azerb. SSR
*Doklady Akademii Nauk Belorusskaya SSR	Dokl. Akad. Nauk Belorussk. SSR
*Doklady Akademii Nauk SSSR	Dokl. Akad. Nauk SSSR
*Doklady Akademii Nauk Tadzhikskoi SSR	Dokl. Akad. Nauk Tadzhik. SSR
*Doklady Akademii Nauk Uzbekskoi SSR	Dokl. Akad. Nauk Uzbek. SSR
Doklady Vsesoyuznoi Ordena Lenina Akademii Sel'skokhozyaistvennykh Nauk imeni V.I. Lenina. U.S.S.R.	Dokl. vses. Akad. sel'skokhoz. Nauk
Deutsche Tierärztliche Wochenschrift. Germany	Dt. tierärztl. Wschr.
East African Agricultural and Forestry Journal. Kenya	E. Afr. agric. For. J.
*East African Medical Journal. Kenya	E. Afr. med. J.
East African Wildlife Journal. Kenya	E. Afr. Wildl. J.
Economie et Médicine Animales. France	Econ. Méd. anim.
Encyclopédie Vétérinaire Périodique. France	Encycl. vét. périod.
Endocrinology. U.S.A.	Endocrinology
Entomologia Experimentalis et Applicata. Netherlands	Entomologia exp. appl.
Enzymologia. Acta Biocatalytica. Netherlands	Enzymologia
*Ergebnisse der Mikrobiologie, Immunitätsforschung und Experimentellen Therapie. Germany	Ergebn. Mikrobiol. ImmunForsch. exp. Ther.
Etlik Veteriner Bakteriyoloji Enstitüsü Dergisi. Turkey	Etlik vet. Bakt. Enstit. Derg.
Excerpta Veterinaria Lublin. Poland	Excerpta vet. Lublin
Experimental Agriculture (formerly Empire Journal of Experimental Agriculture). U.K.	Expl. Agric.
Experimental Cell Research. U.S.A.	Expl Cell. Res.
Experimental Husbandry. U.K.	Expl Husb.
*Experimental and Molecular Pathology. U.S.A.	Expl Molec. Path.
Experimental Parasitology. U.S.A.	Expl Parasit.
Experimental Record of the Department of Agriculture, South Australia	Expl Rec. Dep. Agric. S. Aust.
Farmbuildings	Farmbuildings
Farming in South Africa	Fmg S. Afr.
Food and Cosmetics Toxicology. U.K.	Fd Cosmet. Tox.
*Food Technology. U.S.A.	Fd Technol.
Federal Veterinarian. U.S.A.	Fedl Vet.
Federation Proceedings. U.S.A.	Fedn Proc.
*Feedstuffs. U.S.A.	Feedstuffs, Minneapolis
*Fertility and Sterility. U.S.A.	Fert. & Steril.
Finsk Veterinärtidskrift. Finland	Finsk VetTidskr.
*Fiziologichesky Zhurnal SSSR imeni I. M. Sechenov. U.S.S.R.	Fiziol. Zh. SSSR
Folia Veterinaria. Czechoslovakia	Folia vet.

Title	Abbreviation
*Frankfurter Zeitschrift für Pathologie. Germany	Frank. Z. Path.
*Giornale di Batteriologia, Virologia ed Immunologia. Italy	G. Batt. Virol. Immun.
Gaceta Veterinaria. Argentina	Gac. vet.
Gazzetta Veterinaria. Italy	Gazz. vet.
Ghana Farmer. Ghana	Ghana Fmr.
*Growth. U.S.A.	Growth
Gunma Journal of Medical Sciences. Japan	Gunma J. med. Sci.
Health. Journal of the Commonwealth Department of Health. Australia	Health, Canberra
*Health Laboratory Science. U.S.A.	Hlth Lab. Sci.
Hellenike Kteniatrike. (Hellenic Veterinary Medicine.) Greece	Hellen. Kten., Thessaloniki
Helminthological Abstracts. U.K.	Helminth. Abstr.
Helminthologia. Czechoslovakia	Helminthologia
Hemera Zoa. Indonesia	Hemera Zoa
Herbage Abstracts. U.K.	Herb. Abstr.
*Heredity. U.K.	Heredity
*Hoppe-Seyler's Zeitschrift für Physiologische Chemie. Germany	Hoppe-Seyler's Z. Physiol. Chem.
Hungarian Agricultural Review	Hung. agric. Rev.
Illinois Veterinarian	Illinois Vet.
Immunology. U.K.	Immunology
Index to Theses accepted for Higher Degrees. U.K.	Index Theses Univs Gt Br.
Indian Farming	Indian Fmg
Indian Journal of Agricultural and Veterinary Education	Indian J. agric. vet. Educ.
*Indian Journal of Biochemistry	Indian J. Biochem.
*Indian Journal of Dairy Science	Indian J. Dairy Sci.
*Indian Journal of Malariology	Indian J. Malar.
*Indian Journal of Medical Research	Indian J. med. Res.
*Indian Journal of Pathology and Bacteriology	Indian J. Path. Bact.
Indian Journal of Physiology and Allied Sciences	Indian J. Physiol. all. Sci.
Indian Journal of Veterinary Science and Animal Husbandry	Indian J. vet. Sci.
Indian Livestock	Indian Livestock
Indian Science Abstracts	Indian Sci. Abstr.
Indian Veterinary Journal	Indian vet. J.
Industries de l'Alimentation Animale. France	Inds Aliment. anim.
International Abstracts of Biological Sciences	Int. Abstr. biol. Sci.
International Archives of Allergy and Applied Immunology. Switzerland	Int. Archs Allergy
International Bulletin of Bacteriological Nomenclature and Taxonomy. U.S.A.	Int. Bull. bact. Nomencl. Taxon.
International Journal of Applied Radiation and Isotopes	Int. J. appl. Radiat. Isotopes
*International Journal of Fertility. U.S.A.	Int. J. Fert.
International Journal of Immunochemistry. U.K.	Int. J. Immunochem.
*International Journal of Radiation Biology. U.K.	Int. J. Radiat. Biol.
International Pest Control. U.K.	Int. Pest Control
*Internationale Zeitschrift für Vitaminforschung. Switzerland	Int. Z. VitamForsch.
Iowa State University Veterinarian	Iowa St. Univ. Vet.
Iowa Veterinarian	Iowa Vet.
Irish Journal of Agricultural Research	Irish J. agric. Res.
Irish Veterinary Journal. Republic of Ireland	Irish vet. J.
Israel Journal of Medical Sciences	Israel J. med. Sci.
Israel Journal of Zoology	Israel J. Zool.
*Izvestiya Akademii Nauk Armyanskoi SSR, Biol. i Sel'sk. Nauki. U.S.S.R.	Izv. Akad. Nauk armyan. SSR Ser. biol.
*Izvestiya Akademii Nauk Azerbaidzhanskoi SSR, Seriya Biol. i Sel'sk. Nauk. U.S.R.	Izv. Akad. Nauk azerbaij. SSR, Ser. biol.
Izvestiya Akademii Nauk Estonskoi SSR, Seriya Biologicheskaya. U.S.S.R.	Izv. Akad. Nauk eston. SSR, Ser. biol.
Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Biologicheskikh Nauk. U.S.S.R.	Izv. Akad. Nauk Kazakh. SSR, Ser. biol. Nauk.
*Izvestiya Akademii Nauk SSR: Seriya Biologicheskaya. U.S.S.R.	Izv. Akad. Nauk SSSR, Ser. biol.
Izvestiya Akademii Nauk Turkmenskoi SSR, Seriya Biologicheskikh Nauk. U.S.S.R.	Izv. Akad. Nauk Turkmen. SSR, Ser. biol. Nauk
Izvestiya na Instituta po Sravitelna Patologiya na Zhivotnite. Bulgaria	Izv. Inst. srav. Pat. Zhivotnite, Sofia
*Izvestiya na Mikrobiologischeskiya Institut. Bulgaria	Izv. mikrobiol. Inst., Sofia
*Izvestiya Timiryazevskoi Sel'skokhoz. Akademii. U.S.S.R.	Izv. timiryazev. sel'skokhoz. Akad.
Izvestiya na Tsentralniya Nauchnoizsledovatelski Veterinaren Institut po Virusologiya. Bulgaria	Izv. vet. Inst. Virusologiya, Sofia
Izvestiya na Veterinarniya Institut po Zarazni i Parazitni Bolesti. Bulgaria	Izv. vet. Inst. zaraz. parazit. Bolesti. Sofia

Title	Abbreviation
Jaarboek Institut voor Biologisch en Scheikundig Onderzoek van Landbouwgewassen, Wageningen	Jaarb. Inst. biol. scheik. Onderz. LandbGewass.
Japanese Journal of Experimental Medicine	Jap. J. exp. Med.
*Japanese Journal of Medical Science and Biology	Jap. J. med. Sci. Biol.
*Japanese Journal of Microbiology	Jap. J. Microbiol.
Japanese Journal of Veterinary Research	Jap. J. vet. Res.
Japanese Journal of Veterinary Science	Jap. J. vet. Sci.
Japanese Journal of Zootechnical Science	Jap. J. zootech. Sci.
Journal of Agricultural and Food Chemistry. U.S.A.	J. agric. Fd Chem.
Journal of Agricultural Science. U.K.	J. agric. Sci., Camb.
Journal of Agriculture. South Australia	J. Agric. S. Aust.
Journal of Agriculture of the University of Puerto Rico	J. Agric. Univ. P. Rico
Journal of Agriculture. Victorian Department of Agriculture. Australia	J. Agric. Vict. Dep. Agric.
Journal of the American Medical Association	J. Am. med. Ass.
Journal of the American Veterinary Medical Association	J. Am. vet. med. Ass.
Journal of the American Veterinary Radiology Society. U.S.A.	J. Am. vet. Radiol. Soc.
*Journal of Anatomy. U.K.	J. Anat.
*Journal of Animal Ecology. U.K.	J Anim. Ecol.
*Journal of Animal Morphology and Physiology. India	J. Anim. Morph. Physiol.
Journal of Animal Production of the United Arab Republic	J. Anim. Prod. U.A.R.
Journal of Animal Science. U.S.A.	J. Anim. Sci.
Journal of Applied Bacteriology. U.K.	J. appl. Bact.
Journal of the Arab Veterinary Medical Association	J. Arab vet. med. Ass.
*Journal of Atherosclerosis Research. Netherlands	J. Atheroscler. Res.
Journal of the Australian Institute of Agricultural Science	J. Aust. Inst. agric. Sci.
Journal of Bacteriology. U.S.A.	J. Bact.
Journal of Biological Chemistry. U.S.A.	J. biol. Chem.
Journal of Bone and Joint Surgery, editions A (American) and B (British)	J. Bone Jt Surg.
*Journal of the British Grassland Society	J. Brit. Grassld Soc.
Journal of Chromatography	J. Chromat.
Journal of Clinical Investigation. U.S A.	J. clin. Invest.
Journal of Clinical Pathology. U.K.	J. clin. Path.
Journal of Comparative Pathology. U.K.	J. comp. Path.
Journal of Dairy Research. U.K.	J. Dairy Res.
Journal of Dairy Science. U.S.A.	J. Dairy Sci.
Journal of the Department of Agriculture. Republic of Ireland	J. Dep. Agric. Repub. Ire.
Journal of the Department of Agriculture, Western Australia	J. Dep. Agric. West. Aust.
Journal of Economic Entomology. U.S.A.	J. econ. Ent.
*Journal of Embryology and Experimental Morphology. U.K.	J. Embryol. exp. Morph.
Journal of Endocrinology. U.K.	J. Endocr.
*Journal of the Entomological Society of Southern Africa	J. ent. Soc. Sth. Afr.
*Journal of Experimental Biology. U.K.	J. exp. Biol.
Journal of Experimental Medicine. U.S.A.	J. exp. Med.
Journal of the Faculty of Agriculture, Kyushu University, Japan	J. Fac. Agric. Kyushu Univ.
Journal of the Faculty of Fisheries and Animal Husbandry, Hiroshima University. Japan	J. Fac. Fish. Anim. Husb. Hiroshima Univ.
*Journal of Food Science. U.S.A.	J. Fd. Sci.
Journal of General Microbiology. U.K.	J. gen. Microbiol.
*Journal of General Physiology. U.S.A.	J. gen. Physiol.
*Journal of Genetics. U.K.	J. Genet.
Journal of Helminthology. U.K.	J. Helminth.
*Journal of Heredity. U.S.A.	J. Hered.
Journal of Hygiene. U.K.	J. Hyg., Camb.
*Journal of Hygiene, Epidemiology, Microbiology and Immunology. Czechoslovakia	J. Hyg. Epidem. Microbiol. Immun.
Journal of Immunology. U.S.A.	J. Immun.
Journal of Infectious Diseases. U.S.A.	J. Infect. Dis.
Journal of the Institute of Animal Technicians. U.K.	J. Inst. Anim. Techns
Journal of Invertebrate Pathology. U.S.A.	J. Invertebr. Path.
*Journal of Investigative Dermatology. U.S.A.	J. invest. Derm.
Journal of the Japan Veterinary Medical Association	J. Japan vet. med. Ass.
Journal of Laboratory and Clinical Medicine. U.S.A.	J. Lab. clin. Med.
Journal of the Malayan Veterinary Medical Association	J. Malay. vet. med. Ass.
*Journal of Mammalogy. U.S.A.	J. Mammal.
Journal of Medical Entomology. U.S.A.	J. med. Ent.
Journal of Medical Laboratory Technology. U.K.	J. med. Lab. Technol.
Journal of Microbiology, Epidemiology and Immunobiology. (See under Zhurnal)	——

Title	Abbreviation
*Journal of Morphology. U.S.A.	J. Morph.
Journal of the National Cancer Institute. U.S.A.	J. natn. Cancer Inst.
*Journal of Neuropathology and Experimental Neurology. U.S.A.	J. Neuropath. exp. Neurol.
*Journal of Nuclear Medicine. U.S.A.	J. Nucl. Med.
Journal of Nutrition. U.S.A.	J. Nutr.
Journal of Parasitology. U.S.A.	J. Parasit.
Journal of Pathology and Bacteriology. U.K.	J. Path. Bact.
*Journal of Pharmacology and Experimental Therapeutics. U.S.A.	J. Pharmac. exp. Ther.
Journal of Physiology. U.K.	J. Physiol., Lond.
Journal of Protozoology. U.S.A.	J. Protozool.
Journal of the Royal Agricultural Society of England. U.K.	J. R. agric. Soc.
Journal of the Royal Army Veterinary Corps. U.K.	J. R. Army vet. Cps
*Journal of the Royal Institute of Public Health and Hygiene. U.K.	J. R. Inst. publ. Hlth
*Journal of the Royal Microscopical Society. U.K.	J. R. microsc. Soc.
Journal of Reproduction and Fertility. U.K.	J. Reprod. Fert.
Journal of Research. Punjab Agricultural University. India	J. Res., Ludhiana
Journal of the South African Veterinary Medical Association	J. S. Afr. vet. med. Ass.
Journal of the Science of Food and Agriculture. U.K.	J. Sci. Fd Agric.
Journal of Small Animal Practice. U.K.	J. small Anim. Pract.
Journal of the Tokyo Society of Veterinary and Zootechnical Science. Japan	J. Tokyo Soc. vet. zootech. Sci.
*Journal of Tropical Medicine and Hygiene. U.K.	J. trop. Med. Hyg.
Journal of Veterinary and Animal Husbandry Research. Madhya Pradesh. India	J. vet. Anim Husb. Res., Mhow
Journal of Veterinary Science of the United Arab Republic	J. vet. Sci. U.A.R.
*Journal of Wildlife Management. U.S.A.	J. Wildl. Mgmt
*Journal of Zoology. Proceedings of the Zoological Society of London	J. Zool.
Kerala Vet. India	Kerala Vet.
Kitasato Archives of Experimental Medicine. Japan	Kitasato Archs exp. Med.
Kleintier-Praxis. Germany	Kleintier-Prax.
Krolikovodstvo i Zverovodstvo. U.S.S.R.	Krolikovod. Zverovod.
Laboratory Animal Care. U.S.A.	Lab. Anim. Care
Laboratory Investigation. U.S.A.	Lab. Invest.
Laboratory Practice. U.K.	Lab. Pract.
Lancet. U.K.	Lancet
Landwirtschaftliches Zentralblatt, Abeilung IV, Veterinärmedizin. Germany	Landw. Zentbl. Abt. IV VetMed.
Lantbrukshögskolans Annaler. Sweden	LantbrHögsk. Annlr
Lucrările Institutului de Cercetări Veterinare si Biopreparate "Pasteur". Roumania	Lucr. Inst. Cerc. Vet. Bioprep. Pasteur
Lucrări Stiintifice. Institutul Agronomic "N. Bălcescu". Seria C. Roumania	Lucr. stiint. Inst. agron. N. Bălcescu, Ser. C
Lucrările Stiintifice ale Institutului de Cercetări Zootehnice. Roumania	Lucr. stiint. Inst. Cerc. zooteh.
Lucrările Stiintifice ale Institutului de Patologie si Igienă Animală. Roumania	Lucr. stiint. Inst. Patol. Ig. anim.
Lucrările Stiintifice ale Institutului de Seruri si Vaccinuri Pasteur-Bucuresti. Roumania	Lucr. stiint. Inst. Seruri Vacc. Pasteur-Buc.
Madras Veterinary College Annual. India	Madras vet. Coll. Annual
Magyar Allatorvosok Lapja. Hungary	Magy. Allatorv. Lap.
Malayan Agricultural Journal	Malay. agric. J.
Manx Journal of Agriculture. U.K.	Manx J. Agric.
Maroc Médical. Morocco	Maroc. méd.
May and Baker Veterinary Review. U.K.	M & B vet. Rev.
Mededelingen der Veertsenijschool van de Rijksuniversiteit te Gent. Belgium	Meded. VeeartsSch. Rijksuniv. Gent.
Medical History. U.K.	Med. Hist.
*Medical Journal of Australia	Med. J. Aust.
*Medicine. U.S.A.	Medicine. Baltimore
*Medical Journal of Malaya	Med. J. Malaya
Medlemsblad for den Danske Dyrlaegeforening. Denmark	Medlemsbl. danske Dyrlaegeforen.
Medlemsblad for den Norske Veterinaerforening. Norway	Medlemsbl. norske VetForen.
*Meditsinskaya Parazitologiya i Parazitarnye Bolezni. U.S.S.R.	Medskaya Parazit.
Medycyna Weterynaryjna. Poland	Medycyna wet.
Memoirs of the College of Agriculture. National Taiwan University. Formosa.	Mem. Coll. Agric. natn. Taiwan Univ.
Memoirs of the Ehime University. Sect. VI (Agriculture). Japan	Mem. Ehime Univ. Sect. VI (Agric.)
Memoirs of the Faculty of Agriculture. University of Miyazaki. Japan	Mem. Fac. Agric. Univ. Miyazaki
Memorias do Instituto Oswaldo Cruz. Brazil	Mems Inst. Oswaldo Cruz
Metabolism. U.S.A.	Metabolism
Michigan State University Veterinarian	Mich. St. Univ. Vet.

Title	Abbreviation
*Milchwissenschaft. Germany	Milchwissenschaft
Modern Veterinary Practice. U.S.A.	Mod. vet. Pract.
Monatshefte für Veterinärmedizin. Germany	Mh. VetMed.
Monthly Bulletin of the Ministry of Health and the Public Health Laboratory Service. U.K.	Mon. Bull. Minist. Hlth
Mycologia. U.S.A.	Mycologia
Mycopathologia et Mycologia Applicata. Netherlands	Mycopath. Mycol. appl.
National Institute of Animal Health Quarterly. Japan	Natn. Inst. Anim. Hlth Qt., Tokyo
Nature, U.K.	Nature, Lond.
Nauchni Trudove. Vissh Veterinarnomeditsinski Institut "Prof. Dr. G. Pavlov". Bulgaria	Nauchni Trud. vissh vet.-med. Inst. Prof. G. Pavlov
*Netherlands Journal of Agricultural Science	Neth. J. agric. Sci.
New England Journal of Medicine. U.S.A.	New Engl. J. Med.
New Zealand Agriculturist	N.Z. Agrist
New Zealand Journal of Agriculture	N.Z. J. Agric.
New Zealand Journal of Agricultural Research	N.Z. J. agric. Res.
New Zealand Journal of Science	N.Z. J. Sci.
*New Zealand Medical Journal	N.Z. med. J.
New Zealand Veterinary Journal	N.Z. vet. J.
N.I.B.S. Bulletin of Biological Research. Nippon Institute for Biological Science. Japan	N.I.B.S. Bull. biol. Res. Tokyo
Nordisk Veterinärmedicin. Denmark	Nord. VetMed.
Nuova Veterinaria, Italy	Nuova Vet.
Nutrition Abstracts and Reviews. U.K.	Nutr. Abstr. Rev.
*Nutrition Reviews. U.S.A.	Nutr. Rev.
Onderstepoort Journal of Veterinary Research. South Africa	Onderstepoort J. vet. Res.
Outlook on Agriculture	Outl. Agric.
Pakistan Journal of Animal Sciences	Pakist. J. Anim. Sci.
Pakistan Journal of Science	Pakist. J. Sci.
Pakistan Journal of Scientific Research	Pakist. J. scient. Res.
Papua and New Guinea Agricultural Gazette	Papua New Guin. agric. Gaz.
Parasitology. U.K.	Parasitology
*Pastoral Review and Graziers' Record. Australia	Pastoral Rev. Graz. Rec.
*Pathologia et Microbiologia. Switzerland	Path. Microbiol.
Pathologia Veterinaria. Switzerland	Pathologia vet.
Pecuária. Anais dos Serviços de Veterinária e Indústria Animal. Angola	Pecuária, Loanda
Pest Technology. U.K.	Pest. Technol.
Pesticides Abstracts and News Summary. Section A: Insecticides. U.K.	Pestic. Abstr., Sect. A
Pflügers Archiv für die Gesamte Physiologie des Menschen und der Tiere. Germany	Pflügers Arch. ges. Physiol.
Pharmacological Reviews. U.S.A.	Pharmac. Rev.
*Philosophical Transactions of the Royal Society. Series B. U.K.	Phil. Trans. R. Soc. Ser. B
Philippine Journal of Animal Industry	Philipp. J. Anim. Ind.
Philippine Journal of Science	Philipp. J. Sci.
Philippine Journal of Veterinary Medicine	Philipp. J. vet. med.
Physiological Reviews. U.S.A.	Physiol. Rev.
Polskie Archiwum Weterynaryjne. Poland	Polskie Archwm wet.
Poultry Digest. U.S.A.	Poult. Dig.
Poultry Industry. U.K.	Poult. Ind., York
Poultry Review	Poult. Rev.
Poultry Science. U.S.A.	Poult. Sci.
Practicing Veterinarian. U.S.A.	Pract. Vet.
Praktische Tierarzt. Germany	Prakt. Tierarzt
Proceedings of the American Association for Cancer Research. U.S.A.	Proc. Am. Ass. Cancer Res.
Proceedings of the American Veterinary Medical Association	Proc. Am. vet. med. Ass.
Proceedings of the Australian Society of Animal Production	Proc. Aust. Soc. Anim. Prod.
Proceedings of the Entomological Society of British Columbia	Proc. ent. Soc. Br. Columb.
Proceedings of the Helminthological Society of Washington	Proc. helminth Soc. Wash.
*Proceedings. Koninklijke Nederlandse Akademie van Wetenschappen, Series C. Netherlands	Proc. K. ned. Akad.
Proceedings of the New Zealand Ecological Society	Proc. N.Z. ecol. Soc.
Proceedings of the New Zealand Society of Animal Production	Proc. N.Z. Soc. Anim. Prod.
Proceedings of the Nutrition Society. U.K.	Proc. Nutr. Soc.
Proceedings of the Royal Society of Medicine. U.K.	Proc. R. Soc. Med.
Proceedings of the Royal Society. Series B. U.K.	Proc. R. Soc. Ser. B
Proceedings of the Ruakura Farmers' Conference Week. New Zealand	Proc. Ruakura Frmrs' Conf.
Proceedings of the Society for Experimental Biology and Medicine. U.S.A.	Proc. Soc. exp. Biol. Med.
Proceedings. United States Livestock Sanitary Association	Proc. U.S. Livestock Sanit. Ass.

Title	Abbreviation
Progress in Immunobiological Standardization. Switzerland	Prog. immunobiol. Standard.
Progresso Veterinario. Italy	Progesso vet., Torino
Public Health Reports. U.S.A.	Publ. Hlth Rep., Wash.
Quarterly Bulletin. Michigan State University Agricultural Experiment Station	Q. Bull. Mich. St. Univ. agric. Exp. Stn
*Quarterly Journal of Experimental Physiology. U.K.	Q.J. exp. Physiol.
Quarterly Journal of Microscopical Science. U.K.	Q.J. mirosc. Sci.
Queensland Agricultural Journal. Australia	Qd agric. J.
Queensland Journal of Agricultural and Animal Sciences	Qd J. agric. anim. Sci.
Royal Society of Health Journal. U.K.	R. Soc. Hlth J.
Radiation Research. U.S.A.	Radiat. Res.
*Rendiconti Istituto Superiore di Sanità. Italy	Rc. Ist. sup. Sanità
Records of Researches in the Faculty of Agriculture, University of Tokyo	Rec. Res. Fac. Agric. Univ. Tokyo
Recueil de Médecine Véterinaire. France	Recl Méd. vét.
Referativnyi Zhurnal. 58: Zhivotnovodsto, Veterinaria. U.S.S.R.	Referat. Zh., Zhivotnovod. Vet.
Refuah Veterinarith. Israel	Refuah vet.
Research and Experimental Record of the Ministry of Agriculture. Northern Ireland	Res. exp. Rec. Minist. Agric. Nth. Ire.
Research Reports of the Office of Rural Development. Korea	Res. Rep. Off. rur. Dev., Suwon, Korea
Research in Veterinary Science. U.K.	Res. vet. Sci.
Review of Applied Entomology. Series B. U.K.	Rev. appl. Ent. Ser. B
Review of Medical and Veterinary Mycology. U.K.	Rev. med. vet. Mycol.
Revista de Biologia Tropical. Costa Rica	Revta Biol. trop.
Revista da Faculdade de Agronomia e Veterinária da Universidade do Rio Grande do Sul. Brazil	Revta Fac. Agron. Vet., Porto Alegre
Revista de la Facultad de Agronomía y Veterinaria. Argentina	Revta Fac. Agron. Vet. Univ. B. Aires
Revista de la Facultad de Ciencias Veterinarias de la Plata. Argentina	Revta Fac. Cienc. vet. La Plata
Revista de la Facultad de Medicina Veterinaria. Peru	Revta Fac. Med. vet. Univ. nac., Lima
Revista da Faculdade de Medicina Veterinária. Brazil	Revta Fac. Med. vet., Univ. S. Paulo
Revista de la Facultad de Medicina Veterinaria y de Zootécnia. Colombia	Revta Fac. Med. vet., Zootéc. Univ. nac. Colomb.
*Revista Ibérica de Parasitologia. Spain	Revta ibér. Parasit.
Revista de Investigaciones Agropecuarias, Serie 4—Patologia Animal. Argentina	Revta Investnes Agropec., Ser. 4 (Patol. anim.)
Revista Latinoamericana de Microbiologia. Mexico	Revta lat.-am. Microbiol.
Revista de Medicina Veterinaria. Argentina	Revta Med. vet., B. Aires
Revista de Medicina Veterinaria. Uruguay	Revta Med. vet., Montev.
Revista de Medicina Veterinaria y Parasitologia. Venezuela	Revta Med. vet. Parasit,, Maracay
Revista Militar de Veterinaria. Argentina	Revta Milit. Vet., B. Aires
Revista del Patronato de Biologia Animal. Spain	Revta Patron. Biol. anim.
Revista Portuguesa de Ciências Veterinárias	Revta port. Ciênc. vet.
Revista Veterinaria Venezolana	Revta vet. venez.
Revista de Veterinaria y Zootechnia. Colombia	Revta Vet. Zootec., Manizales
Revista de Zootehnie si Medicina Veterinara. Roumania	Revta Zooteh. Med. vet., Bucuresti
*Revue Canadienne de Biologie	Revue can. Biol.
*Revue des Corps de Santé des Armées. France	Revue Corps Santé Armées
Revue d'Elevage et de Médecine Vétérinaire des Pays Tropicaux. France	Revue Elev. Méd. vét. Pays trop.
Revue Française d'Etudes Cliniques et Biologiques. France	Revue fr. Etud. clin. biol.
Revue d'Immunologie et de Thérapie Antimicrobienne. France	Revue Immunol. Thér. antimicrob.
Revue de Médecine Vétérinaire. France	Revue Méd. vét.
Revue de Pathologie Comparée. France	Revue Path. comp.
Revue des Sciences Médicales. Roumania	Revue. Sci. méd., Bucuresti
Revue du Service Biologique et Vétérinaire des Armées. France	Revue Serv. biol. vét. Armées
Rhodesia Agricultural Journal	Rhod. agric. J.
Rhodesian Journal of Agricultural Research. Rhodesia	Rhod. J. agric. Res.
Rivista dell'Istituto Sieroterapico Italiano	Riv. Ist. sieroter. ital.
*Rivista di Parassitologia. Italy	Riv. Parassit.
Rocky Mountain Veterinarian. U.S.A.	Rocky Mount. Vet.
Roczniki Nauk Rolniczych. Seria B: Zootechnicza; [Seria E: continued as Polski Archiwum Weterynaryjne]	Roczn. Nauk roln.
Rural Research in C.S.I.R.O. Australia	Rur. Res. C.S.I.R.O.
South African Journal of Agricultural Science	S. Afr. J. agric. Sci.
South African Journal of Laboratory and Clinical Medicine	S. Afr. J. Lab. clin. Med.
South African Journal of Medical Sciences	S. Afr. J. med. Sci.
*South African Journal of Science	S. Afr. J. Sci.

Title	Abbreviation
South African Medical Journal	S. Afr. med. J.
Sabouraudia. U.K.	Sabouraudia
Sborník Vysokej Školy Pol'nohospodárskej v Nitre. Czechoslovakia	Sb. vys. Šk. pol'nohospod. Nitra
Sborník Vysoké Školy Zemědělské v Brně. Rada B. Spisy Fakulty Veterinární	Sb. vys. Šk. zeměd. Brně Ser. B
Scandinavian Journal of Clinical & Laboratory Investigation. Sweden	Scand. J. clin. lab. Invest.
Schweizer Archiv für Tierheilkunde. Switzerland	Schweizer Arch. Tierheilk.
Science Abstracts of China. Biological Sciences	Sci. Abstr. China, Biol. Sci.
Science Bulletin of the Faculty of Agriculture. Kyushu University. Japan	Sci. Bull. Fac. Agric. Kyushu Univ.
Science. U.S.A.	Science
Scientific Proceedings of the Annual Meeting of the American Veterinary Medical Association, Chicago	Scient. Proc. a. Meet. Am. vet. med. Ass.
*Scientific Proceedings. Royal Dublin Society	Scient. Proc. R. Dubl. Soc.
Scottish Agriculture	Scott. Agric.
Southwestern Veterinarian. U.S.A.	SWest. Vet.
Span (Shell Int. Chem. Co. Ltd.)	Span
The Speculum. College of Veterinary Medicine, The Ohio State University, Ohio, U.S.A.	Speculum, Ohio
Stain Technology. U.S.A.	Stain Technol.
*Studii si Cercetări de Biologie. Seriă Biologie Animale. Roumania	Studii Cerc. Biol., Ser. Biol. anim.
*Studii si Cercetări Biologie si Stiinte Agricole. Roumania	Studii Cerc. Biol. Stiinte agric. Timisoara
*Studii si Cercetări de Inframicrobiologie. Roumania	Studii Cerc. Inframicrobiol.
Sudan Journal of Veterinary Science and Animal Husbandry	Sudan J. vet. Sci. anim. Husb.
Summaries of the Reports in the Bulletin of the National Institute of Animal Industry. Japan	Summs Rep. Bull. Nat. Inst. Anim. Ind., Chiba
Svensk Veterinärtidning. Sweden	Svensk VetTidn.
Tasmanian Journal of Agriculture	Tasm. J. Agric.
Tecnica Pecuaria en México	Tec. Pecu.
*Texas Reports of Biology and Medicine. U.S.A.	Tex. Rep. Biol. Med.
Tierärztliche Umschau. Germany	Tierärztl. Umsch.
Tijdschrift voor Diergeneeskunde. Netherlands	Tijdschr. Diergeneesk.
Tohoku Journal of Agricultural Research. Japan	Tohoku J. agric. Res.
*Toxicology and Applied Pharmacology. U.S.A.	Toxic. appl. Pharmac.
*Transactions of the American Microscopical Society	Trans. Am. microsc. Soc.
*Transactions of the New York Academy of Sciences	Trans. N.Y. Acad. Sci.
Transactions of the Royal Highland and Agricultural Society	Trans. R. Highld agric. Soc. Scotl.
*Transactions of the Royal Society of South Australia	Trans. R. Soc. S. Aust.
Transactions of the Royal Society of Tropical Medicine and Hygiene. U.K.	Trans. R. Soc. trop Med. Hyg.
Tropical Diseases Bulletin. U.K.	Trop. Dis. Bull.
*Tropical and Geographical Medicine. Netherlands	Trop. geogr. Med.
Tropical Science. U.K.	Trop. Sci.
Tubercle. U.K.	Tubercle, Lond.
Türk Askeri Veteriner Hekimleri Dergisi	Türk. Ask. vet. Hekim. Derg.
Türk Veteriner Hekimleri Dernigi Dergisi. Turkey	Türk. vet. Hekim. Dern. Derg.
Turkeys. The Journal of the British Turkey Federation Ltd.	Turkeys
Vědecké Práce Výzkumného Ustavu Veterinárniho Lékařství v Brně	Věd. Pr. výzk. Ust. vet. Brně
Vestnik sel'skokhozyaistvennoi Nauki. U.S.SR.	Vest. sel'-khoz. Nauki. Mosk.
Veterinarski Arhiv. Yugoslavia	Vet. Arh.
Veteriner Fakültesi Dergisi. Turkey	Vet. Fak. Derg. Ankara Univ.
Veteriner Fakültesi Yayinlari. Turkey	Vet. Fak. Yayin. Ankara Univ.
Veterinarski Glasnik. Yugoslavia	Vet. Glasn.
Veterinary Inspector. New South Wales	Vet. Insp. N.S.W.
Veterinaria Italiana. Italy	Vet. ital.
Veterinary Medical Journal. Egypt	Vet. Med. J., Giza
Veterinär-Medizinische Nachrichten. Germany	Vet.-med. Nachr.
Veterinární Medicina. Czechoslovakia	Vet. Med., Praha
Veterinary Medical Review [English translation of Vet.-med. Nachr.] Germany	Vet. med. Rev., Leverkusen
Veterinary Medicine and Small Animal Clinician. U.S.A.	Vet. Med. small Anim. Clin.
Veterinary Record	Vet. Rec.
Veterinarna Sbirka. Bulgaria	Vet. Sbir., Sof.
Veterinaria y Zootechnica. Peru	Vet. Zootec., Lima
Veterinaria. Italy	Veterinaria, Milano
Veterinaria. Brazil	Veterinaria, Rio de J.
Veterinaria, Yugoslavia	Veterinaria, Saraj.
The Veterinarian. U.K.	Veterinarian, Oxford
Veterinariya, U.S.S.R.	Veterinariya

Title	Abbreviation
Veterinářství. Czechoslovakia	Veterinářství
Veterinarnoméditsinskii Nauki. Bulgaria	VetMed. Nauki, Sof.
Vetserum, Zagreb	Vetserum
Victorian Veterinary Proceedings. Australia	Vict. Vet. Proc.
*Virchows Archiv für Pathologische Anatomie und Physiologie und für Klinische Medizin. Germany	Virchows Arch. path. Anat. Physiol.
Virology. U.S.A.	Virology
Vlaams Diergeneeskundig Tijdschrift. Belgium	Vlaams diergeneesk. Tijdschr.
*Voprosy Virusologii. U.S.S.R.	Vop. Virus.
West Pakistan Journal of Agricultural Research	W. Pakist. J. agric. Res.
Weed Abstracts. U.K.	Weed Abstr.
WHO Chronicle. [World Health Organization]	WHO Chron.
Wiener Tierärztliche Monatsschrift. Austria	Wien. tierärztl. Mschr.
Wildlife Disease. U.S.A.	Wildl. Dis.
*Wildlife Monographs. U.S.A.	Wildl. Monogr., Chestertown
Wissenschaftliche Zeitschrift der Humboldt-Universität zu Berlin	Wiss. Z. Humboldt-Univ. Berl.
World Review of Animal Production	Wld Rev. Anim. Prod.
X-Ray Focus. U.K.	X-Ray Focus
Yale Journal of Biology and Medicine. U.S.A.	Yale J. Biol. Med.
Yokohama Medical Bulletin. Japan	Yokohama med. Bull.
Zeitschrift für angewandte Zoologie. Germany	Z. angew. Zool.
*Zeitschrift für die Gesamte Hygiene und ihre Grenzgebiete	Z. ges. Hyg.
*Zeitschrift für Hygiene und Infektionskrankheiten	Z. Hyg. InfektKrankh.
*Zeitschrift für Immunitäts- und Allergieforschung	Z. ImmunForsch.
*Zeitschrift für Krebsforschung	Z. Krebsforsch.
*Zeitschrift für Naturforschung	Z. Naturf.
Zeitschrift für Parasitenkunde	Z. ParasitKde
*Zeitschrift für Tierzüchtung und Züchtungsbiologie	Z. Tierzücht ZüchtBiol.
Zeitschrift für Tropenmedizin und Parasitologie	Z. Tropenmed. Parasit.
Zeitschrift für Versuchstierkunde. Germany	Z. Versuchstierk.
*Zeitschrift für Zellforschung und Mikroskopische Anatomie	Z. Zellforsch. mikrosk. Anat.
*Zentralblatt für Allgemeine Pathologie und Pathologische Anatomie	Zentbl. allg. Path. path. Anat.
Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. Erste Abteilung. Originale: Referate	Zentbl. Bakt. ParasitKde I.
Zentralblatt für Veterinärmedizin	Zentbl. VetMed.
Zeszyty Naukowe Wyszej Szkoly Rolniczej. Weterynaria. Poland	Weterynaria. Wroclaw
Zhurnal Mikrobiologii Epidemiologii i Immunobiologii. U.S.S.R.	Zh. Mikrobiol. Epidem. Immunobiol.
Zooiatria. Chile	Zooiatria
*Zoologicheskii Zhurnal, U.S.S.R.	Zool. Zh.
Zoonoses Research. U.S.A.	Zoonoses Res.
Zooprofilassi. Italy	Zooprofilassi
Zootechnica e Veterinaria—La Fecondazione Artificial. Italy	Zootec. Vet.

IRREGULAR PUBLICATIONS FROM THE SOVIET UNION
(Collected works of Institutes)

Ukrainian Institute for Experimental Veterinary Science, Kharkov	Nauchni Trud. Ukrain. Inst. eksp. Vet.
Siberian Veterinary Research Institute, Omsk	Sb. nauch. Trud. Sibirsk. vet. Inst.
Leningrad Veterinary Institute	Sb. Rab. Leningr. vet. Inst.
Kharkov Veterinary Institute	Sb. Trud. Kharkov. vet. Inst.
Latvian Research Institute for Animal Husbandry & Veterinary Science	Sb. Trud. Latv. Inst. Zhivot. Vet.
Leningrad Veterinary Research Institute	Sb. Trud. Leningr. nauchno-issled. vet. Inst.
Armenian Research Institute for Animal Husbandry & Veterinary Science	Trudy Armyan. Inst. Zhivot. Vet.
Far-Eastern Veterinary Research Institute, Amur	Trudy Dal'nevost. vet. Inst.
Erevan Zootechnical-Veterinary Institute	Trudy Erevan. zootekh.-vet. Inst.
Helminthological Laboratory, U.S.S.R. Academy of Science, Moscow	Trudy gel'mint. Lab.
Georgian Zootechnical-Veterinary Institute, Tbilisi	Trudy Gruz. zootekh.-vet. Inst.
"Severtsov" Institute of Animal Morphology	Trudy Inst. Morf. Zhivot.
Kazakh Veterinary Institute, Alma-Ata	Trudy Inst. Vet. Alma-Ata
Kazan Veterinary Research Institute	Trudy Kazan. vet. Inst.
Moscow Veterinary Academy	Trudy Mosk. vet. Akad.
State Control Institute for Veterinary Preparations, Moscow	Trudy nauchno-kontrol Inst. vet. Preparatov
Novocherkasse Zootechnical-Veterinary Institute	Trudy Novocherk. zootekh.-vet. Inst.
Omsk Veterinary Institute	Trudy Omsk. vet. Inst.
Saratov Zootechnical-Veterinary Institute	Trudy Saratov. zootekh.-vet. Inst.
All-Union Institute for Experimental Veterinary Science, Kuz'minki	Trudy vses. Inst. eksp. Vet.
All-Union "Skryabin" Institute of Helminthology, Moscow	Trudy vses. Inst. Gel'mint.
All-Union Institute for Veterinary Sanitary Science, Moscow	Trudy vses. Inst. vet. Sanit.